

THE EFFECTS OF CLIMATE CHANGE ON AGRICULTURAL SYSTEMS NEXT GENERATION SCIENCE STANDARDS ACTIVITY CHARTS

Performance Expectations

This chart identifies the Effects of Climate Change on Agricultural Systems activities that address each of the listed Next Generation Science Standards Performance Expectations.

MIDDLE SCHOOL					
	Farms on the Table	Interacting Adaptations	Will it be Productive?	Washed Away	Get Out and Graze
MS-LS1-6			●		
MS-LS2-1					●
MS-LS2-5	◐	◐	◐		◐
MS-ESS3-3	◐	◐	◐		
HIGH SCHOOL					
HS-ESS3-1	◐	◐	◐	●	●
HS-ESS3-4	●	●	●		

● = Activity fully addresses Performance Expectation

◐ = Fully addresses Performance Expectation when combined with other activities with this notation

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Three Dimensions

This chart identifies the Effects of Climate Change on Agricultural Systems activities that address each of the listed three dimensions of the Next Generation Science Standards.

NGSS THREE DIMENSIONS					
	Farms on the Table	Interacting Adaptations	Will it be Productive?	Washed Away	Get Out and Graze
SCIENCE AND ENGINEERING PRACTICES					
Developing and Using Models	MS		MS, HS	MS, HS	MS, HS
Planning and Carrying Out Investigations			MS	MS, HS	
Analyzing and Interpreting Data			MS		MS
Constructing Explanations and Designing Solutions			MS	MS, HS	MS, HS
Engaging in Argument from Evidence		MS, HS			
Obtaining, Evaluating, and Communicating Information		MS, HS			
DISCIPLINARY CORE IDEAS					
ESS2.C The Roles of Water in Earth's Surface Processes				MS, HS	
ESS3.A Natural Resources		HS			HS
ESS3.B Natural Hazards				MS, HS	
ESS3.C Human Impacts on Earth Systems	MS, HS	MS, HS	MS, HS	MS, HS	MS, HS
LS1.C Organization for Matter and Energy Flow in Organisms			MS, HS		
LS2.A Interdependent Relationships in Ecosystems					MS, HS
PS3.D Energy in Chemical Processes and Everyday Life			MS, HS		
CROSSCUTTING CONCEPTS					
Cause and Effect				MS, HS	MS, HS
Systems and System Models	MS, HS		MS, HS	MS, HS	MS, HS
Energy and Matter			MS		

MS = Middle School
HS = High School